

## On-Board Type Coils / Chip Power Inductor

### ◆ Features

1. Magnetic Shielded surface mount inductor with high current rating.
2. Low resistance to keep power loss minimum.
3. The products contain no lead and also support lead-free soldering.



### ◆ Applications

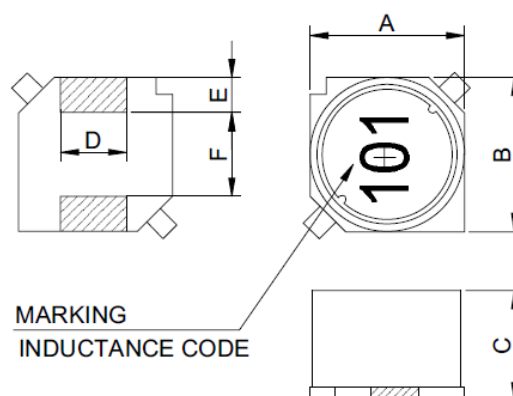
Excellent for power line DC-DC conversion applications used in hard disk, notebook computers and other electronic equipment.



### ◆ Lead Free Part Numbering

**SLP 6045 S 100 M T T**  
**(1) (2) (3) (4) (5) (6) (7)**

- (1) Series Type
- (2) Dimension: A X C
- (3) Material Code
- (4) Inductance: 2R2=2.2 $\mu$ H ;  
100=10 $\mu$ H; 101=100 $\mu$ H
- (5) Inductance Tolerance: M= $\pm$ 20%, Y= $\pm$ 30%
- (6) Company Code
- (7) Packaging : packed in embossed carrier tape



### ◆ Dimensions

Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	F(mm)
SLP6025S	6.0 $\pm$ 0.2	6.0 $\pm$ 0.2	2.5 $\pm$ 0.2	2.0 $\pm$ 0.1	0.9 $\pm$ 0.1	4.0 $\pm$ 0.2
SLP6028S	6.0 $\pm$ 0.2	6.0 $\pm$ 0.2	2.8 $\pm$ 0.2	2.0 $\pm$ 0.1	0.9 $\pm$ 0.1	4.0 $\pm$ 0.2
SLP6045S	6.0 $\pm$ 0.2	6.0 $\pm$ 0.2	4.5 $\pm$ 0.3	2.0 $\pm$ 0.1	0.9 $\pm$ 0.1	4.0 $\pm$ 0.2
SLP7032S	7.0 $\pm$ 0.2	7.0 $\pm$ 0.2	3.2 $\pm$ 0.2	2.0 $\pm$ 0.1	0.9 $\pm$ 0.1	4.9 $\pm$ 0.2
SLP7045S	7.0 $\pm$ 0.2	7.0 $\pm$ 0.2	4.5 $\pm$ 0.3	2.0 $\pm$ 0.1	0.9 $\pm$ 0.1	4.9 $\pm$ 0.2
SLP7055S	7.0 $\pm$ 0.2	7.0 $\pm$ 0.2	5.5 $\pm$ 0.3	2.0 $\pm$ 0.1	0.9 $\pm$ 0.1	4.9 $\pm$ 0.2
SLP1045S	10.0 $\pm$ 0.3	10.0 $\pm$ 0.3	4.5 $\pm$ 0.3	3.0 $\pm$ 0.1	2.0 $\pm$ 0.1	6.1 $\pm$ 0.2
SLP1065S	10.0 $\pm$ 0.3	10.0 $\pm$ 0.3	6.5 $\pm$ 0.3	3.0 $\pm$ 0.1	2.0 $\pm$ 0.1	6.1 $\pm$ 0.2
SLP1255S	12.5 $\pm$ 0.3	12.5 $\pm$ 0.3	5.5 $\pm$ 0.3	3.0 $\pm$ 0.1	2.0 $\pm$ 0.1	8.5 $\pm$ 0.2
SLP1265S	12.5 $\pm$ 0.3	12.5 $\pm$ 0.3	6.5 $\pm$ 0.3	3.0 $\pm$ 0.1	2.0 $\pm$ 0.1	8.5 $\pm$ 0.2
SLP1275S	12.5 $\pm$ 0.3	12.5 $\pm$ 0.3	7.5 $\pm$ 0.3	3.0 $\pm$ 0.1	2.0 $\pm$ 0.1	8.5 $\pm$ 0.2

## ◆ Specification

Part Number	Inductance ( $\mu$ H)	Test Frequency (Hz)	DCR ( $\Omega$ ) $\pm$ 20%.	IDC (A) max.
<b>SLP6025S Series</b>				
SLP6025S4R7MTT	4.7 $\pm$ 20%	1V/100K	0.031	1.80
SLP6025S6R8MTT	6.8 $\pm$ 20%	1V/100K	0.044	1.50
SLP6025S100MTT	10 $\pm$ 20%	1V/100K	0.057	1.30
SLP6025S150MTT	15 $\pm$ 20%	1V/100K	0.085	1.10
SLP6025S220MTT	22 $\pm$ 20%	1V/100K	0.122	0.94
SLP6025S330MTT	33 $\pm$ 20%	1V/100K	0.180	0.79
SLP6025S470MTT	47 $\pm$ 20%	1V/100K	0.240	0.67
SLP6025S680MTT	68 $\pm$ 20%	1V/100K	0.370	0.54
SLP6025S101MTT	100 $\pm$ 20%	1V/100K	0.500	0.47
<b>SLP6028S Series</b>				
SLP6028S6R8MTT	6.8 $\pm$ 20%	1V/100K	0.028	2.50
SLP6028S100MTT	10 $\pm$ 20%	1V/100K	0.035	2.20
SLP6028S150MTT	15 $\pm$ 20%	1V/100K	0.053	1.80
SLP6028S220MTT	22 $\pm$ 20%	1V/100K	0.074	1.40
SLP6028S330MTT	33 $\pm$ 20%	1V/100K	0.104	1.30
SLP6028S470MTT	47 $\pm$ 20%	1V/100K	0.148	1.10
SLP6028S680MTT	68 $\pm$ 20%	1V/100K	0.210	0.92
SLP6028S101MTT	100 $\pm$ 20%	1V/100K	0.290	0.78
SLP6028S151MTT	150 $\pm$ 20%	1V/100K	0.430	0.64
SLP6028S221MTT	220 $\pm$ 20%	1V/100K	0.650	0.50
<b>SLP6045S Series</b>				
SLP6045S1R5MTT	1.5 $\pm$ 20%	1V/100K	0.016	4.10
SLP6045S2R2MTT	2.2 $\pm$ 20%	1V/100K	0.018	3.80
SLP6045S3R3MTT	3.3 $\pm$ 20%	1V/100K	0.021	3.40
SLP6045S4R7MTT	4.7 $\pm$ 20%	1V/100K	0.026	3.20
SLP6045S6R8MTT	6.8 $\pm$ 20%	1V/100K	0.033	2.80
SLP6045S100MTT	10 $\pm$ 20%	1V/100K	0.039	2.70
SLP6045S150MTT	15 $\pm$ 20%	1V/100K	0.059	2.20
SLP6045S220MTT	22 $\pm$ 20%	1V/100K	0.082	1.80

## ◆ Specification

Part Number	Inductance ( $\mu$ H)	Test Frequency (Hz)	DCR ( $\Omega$ ) $\pm 20\%$ .	IDC (A) max.
<b>SLP7032S Series</b>				
SLP7032S3R3MTT	3.3 $\pm 20\%$	1V/100K	0.023	2.60
SLP7032S3R5MTT	3.5 $\pm 20\%$	1V/100K	0.025	2.50
SLP7032S4R7MTT	4.7 $\pm 20\%$	1V/100K	0.030	1.90
SLP7032S6R8MTT	6.8 $\pm 20\%$	1V/100K	0.041	1.70
SLP7032S100MTT	10 $\pm 20\%$	1V/100K	0.053	1.40
SLP7032S150MTT	15 $\pm 20\%$	1V/100K	0.075	1.10
SLP7032S220MTT	22 $\pm 20\%$	1V/100K	0.110	0.96
SLP7032S330MTT	33 $\pm 20\%$	1V/100K	0.160	0.75
SLP7032S470MTT	47 $\pm 20\%$	1V/100K	0.240	0.67
SLP7032S680MTT	68 $\pm 20\%$	1V/100K	0.310	0.59
SLP7032S101MTT	100 $\pm 20\%$	1V/100K	0.450	0.45
SLP7032S151MTT	150 $\pm 20\%$	1V/100K	0.650	0.37
SLP7032S221MTT	220 $\pm 20\%$	1V/100K	1.050	0.29
SLP7032S331MTT	330 $\pm 20\%$	1V/100K	1.670	0.22
SLP7032S471MTT	470 $\pm 20\%$	1V/100K	2.050	0.20
SLP7032S681MTT	680 $\pm 20\%$	1V/100K	3.150	0.16
<b>SLP7045S Series</b>				
SLP7045S3R3MTT	3.3 $\pm 20\%$	1V/100K	0.020	2.30
SLP7045S4R7MTT	4.7 $\pm 20\%$	1V/100K	0.030	2.10
SLP7045S6R8MTT	6.8 $\pm 20\%$	1V/100K	0.039	1.74
SLP7045S100MTT	10 $\pm 20\%$	1V/100K	0.036	1.78
SLP7045S150MTT	15 $\pm 20\%$	1V/100K	0.052	1.53
SLP7045S220MTT	22 $\pm 20\%$	1V/100K	0.061	1.34
SLP7045S330MTT	33 $\pm 20\%$	1V/100K	0.096	1.09
SLP7045S470MTT	47 $\pm 20\%$	1V/100K	0.125	0.92
SLP7045S680MTT	68 $\pm 20\%$	1V/100K	0.175	0.77
SLP7045S101MTT	100 $\pm 20\%$	1V/100K	0.250	0.65
SLP7045S151MTT	150 $\pm 20\%$	1V/100K	0.340	0.55
SLP7045S221MTT	220 $\pm 20\%$	1V/100K	0.520	0.45
SLP7045S331MTT	330 $\pm 20\%$	1V/100K	0.740	0.37
SLP7045S471MTT	470 $\pm 20\%$	1V/100K	1.050	0.31
SLP7045S681MTT	680 $\pm 20\%$	1V/100K	1.480	0.27
SLP7045S102MTT	1000 $\pm 20\%$	1V/100K	2.280	0.25

## ◆ Specification

Part Number	Inductance ( $\mu$ H)	Test Frequency (Hz)	DCR ( $\Omega$ ) $\pm 20\%$ .	IDC (A) max.
<b>SLP7055S Series</b>				
SLP7055S1R5MTT	1.5 $\pm 20\%$	1V/100K	0.017	6.2
SLP7055S2R2MTT	2.2 $\pm 20\%$	1V/100K	0.021	5.3
SLP7055S3R3MTT	3.3 $\pm 20\%$	1V/100K	0.024	4.3
SLP7055S4R7MTT	4.7 $\pm 20\%$	1V/100K	0.028	3.6
SLP7055S6R8MTT	6.8 $\pm 20\%$	1V/100K	0.034	3.0
SLP7055S100MTT	10 $\pm 20\%$	1V/100K	0.039	2.6
SLP7055S150MTT	15 $\pm 20\%$	1V/100K	0.051	2.1
SLP7055S220MTT	22 $\pm 20\%$	1V/100K	0.064	1.7
<b>SLP1045S Series</b>				
SLP1045S3R3MTT	3.3 $\pm 20\%$	1V/1K	0.016	4.90
SLP1045S5R6MTT	5.6 $\pm 20\%$	1V/1K	0.022	3.80
SLP1045S100MTT	10 $\pm 20\%$	1V/1K	0.036	3.00
SLP1045S150MTT	15 $\pm 20\%$	1V/1K	0.047	2.40
SLP1045S220MTT	22 $\pm 20\%$	1V/1K	0.059	2.10
SLP1045S330MTT	33 $\pm 20\%$	1V/1K	0.082	1.60
SLP1045S470MTT	47 $\pm 20\%$	1V/1K	0.100	1.40
SLP1045S680MTT	68 $\pm 20\%$	1V/1K	0.140	1.20
SLP1045S101MTT	100 $\pm 20\%$	1V/1K	0.200	1.00
SLP1045S151MTT	150 $\pm 20\%$	1V/1K	0.350	0.79
SLP1045S221MTT	220 $\pm 20\%$	1V/1K	0.470	0.65
SLP1045S331MTT	330 $\pm 20\%$	1V/1K	0.680	0.54
SLP1045S471MTT	470 $\pm 20\%$	1V/1K	1.030	0.47
SLP1045S681MTT	680 $\pm 20\%$	1V/1K	1.600	0.38
SLP1045S102MTT	1000 $\pm 20\%$	1V/1K	2.800	0.32
SLP1045S152MTT	1500 $\pm 20\%$	1V/1K	3.400	0.22
<b>SLP1065S Series</b>				
SLP1065S1R5MTT	1.5 $\pm 20\%$	1V/1K	0.0067	10.7
SLP1065S2R2MTT	2.2 $\pm 20\%$	1V/1K	0.0084	8.9
SLP1065S3R3MTT	3.3 $\pm 20\%$	1V/1K	0.0096	7.8
SLP1065S4R7MTT	4.7 $\pm 20\%$	1V/1K	0.0117	6.1
SLP1065S6R8MTT	6.8 $\pm 20\%$	1V/1K	0.014	4.6
SLP1065S100MTT	10 $\pm 20\%$	1V/1K	0.018	4.1
SLP1065S150MTT	15 $\pm 20\%$	1V/1K	0.027	3.1

## ◆ Specification

Part Number	Inductance ( $\mu$ H)	Test Frequency (Hz)	DCR ( $\Omega$ ) $\pm$ 20%.	IDC (A) max.
<b>SLP1255S Series</b>				
SLP1255S6R0MTT	6 $\pm$ 20%	1V/1K	0.016	4.90
SLP1255S100MTT	10 $\pm$ 20%	1V/1K	0.022	4.30
SLP1255S150MTT	15 $\pm$ 20%	1V/1K	0.026	3.90
SLP1255S220MTT	22 $\pm$ 20%	1V/1K	0.034	3.40
SLP1255S330MTT	33 $\pm$ 20%	1V/1K	0.042	3.10
SLP1255S470MTT	47 $\pm$ 20%	1V/1K	0.062	2.50
SLP1255S680MTT	68 $\pm$ 20%	1V/1K	0.083	2.20
SLP1255S101MTT	100 $\pm$ 20%	1V/1K	0.117	1.80
SLP1255S151MTT	150 $\pm$ 20%	1V/1K	0.190	1.40
SLP1255S221MTT	220 $\pm$ 20%	1V/1K	0.270	1.20
SLP1255S331MTT	330 $\pm$ 20%	1V/1K	0.410	1.00
SLP1255S471MTT	470 $\pm$ 20%	1V/1K	0.520	0.88
SLP1255S681MTT	680 $\pm$ 20%	1V/1K	0.760	0.73
SLP1255S102MTT	1000 $\pm$ 20%	1V/1K	1.120	0.60
SLP1255S152MTT	1500 $\pm$ 20%	1V/1K	1.730	0.48
<b>SLP1265S Series</b>				
SLP1265S2R0MTT	2 $\pm$ 20%	1V/1K	0.012	10.0
SLP1265S4R2MTT	4.2 $\pm$ 20%	1V/1K	0.015	7.3
SLP1265S7R0MTT	7 $\pm$ 20%	1V/1K	0.018	5.7
SLP1265S100MTT	10 $\pm$ 20%	1V/1K	0.020	5.0
SLP1265S150MTT	15 $\pm$ 20%	1V/1K	0.024	4.2
SLP1265S220MTT	22 $\pm$ 20%	1V/1K	0.032	3.5
SLP1265S330MTT	33 $\pm$ 20%	1V/1K	0.041	2.8
SLP1265S470MTT	47 $\pm$ 20%	1V/1K	0.058	2.4
SLP1265S680MTT	68 $\pm$ 20%	1V/1K	0.079	2.0
SLP1265S101MTT	100 $\pm$ 20%	1V/1K	0.123	1.6
SLP1265S221MTT	220 $\pm$ 20%	1V/1K	0.273	1.0

## ◆ Specification

Part Number	Inductance ( $\mu$ H)	Test Frequency (Hz)	DCR ( $\Omega$ ) $\pm$ 20%.	IDC (A) max.
<b>SLP1275S Series</b>				
SLP1275S1R2MTT	1.2 $\pm$ 20%	1V/1K	0.007	13.0
SLP1275S2R7MTT	2.7 $\pm$ 20%	1V/1K	0.009	10.0
SLP1275S3R9MTT	3.9 $\pm$ 20%	1V/1K	0.010	9.0
SLP1275S5R6MTT	5.6 $\pm$ 20%	1V/1K	0.012	7.8
SLP1275S6R8MTT	6.8 $\pm$ 20%	1V/1K	0.013	7.2
SLP1275S100MTT	10 $\pm$ 20%	1V/1K	0.016	5.5
SLP1275S150MTT	15 $\pm$ 20%	1V/1K	0.018	4.7
SLP1275S220MTT	22 $\pm$ 20%	1V/1K	0.026	4.0
SLP1275S330MTT	33 $\pm$ 20%	1V/1K	0.040	3.2
SLP1275S470MTT	47 $\pm$ 20%	1V/1K	0.053	2.7
SLP1275S680MTT	68 $\pm$ 20%	1V/1K	0.078	2.0
SLP1275S101MTT	100 $\pm$ 20%	1V/1K	0.125	1.9
SLP1275S151MTT	150 $\pm$ 20%	1V/1K	0.175	1.5
SLP1275S221MTT	220 $\pm$ 20%	1V/1K	0.258	1.3

Note: 1、 Inductance measured by LCR Meter HP 4294/HP4291;  
 2、 DCR measured by Milliohm meter CH502AC.

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